

1. Process for determining the alignment of a body mounted to rotate around a lengthwise axis of the body with respect to a reference direction and including a position measurement probe which is calibrated to the reference direction and attached on the end face of the body or on a surface essentially parallel to the end face of the body, comprising performing position measurements in at least three measurement positions, each of which differ from one another by an angle of rotation of the body around the lengthwise axis of the body, with one position measurement at a time being taken, and computing the alignment of the body with respect to the reference direction from the measurement data gathered from the at least three measurement positions.

3. Process as claimed in claim 2, wherein there are four measurement positions between which the difference of the angles of rotation is approximately 90 degrees.

4. Process as claimed in claim 1, wherein the alignment of the body is computed using optimization processes selected from one of curve matching and compensation computation from the position measurement data.

5. Process as claimed in claim 1, wherein the position measurement probe is rotated around three axes, which are stationary in an initial coordinate system of the support of the body, are perpendicular to one another, and define pitch, yaw and roll angles of the body, the position measurement probe being attached to the body such that the roll angle measurement indicates revolution of the probe around an axis approximately parallel to the axis of the body.

6. Process as claimed in claim 5, wherein in each measurement position, the angle of rotation of the body is the roll angle achieved by the position measurement probe.

[illegible]

8. Process as claimed in claim 1, wherein the position measurement probe is attached by means of magnetic forces to the end face of the body or to a surface essentially parallel to the end face of the body.

wherein the position measurement probe gathers measurement data from position measurements gathered in at least three measurement positions around the lengthwise axis of rotation such that the measurement positions differ by an angle of rotation of the body around the lengthwise axis.

10. Device as claimed in claim 9, wherein the attachment means performs attachment of the position measurement probe to the end face of the body or a surface which is essentially parallel to the end face of the body by magnetic force.

11. Device as claimed in claim 10, wherein the attachment means is a magnetic foot or magnetic adapter.

12. Device as claimed in claim 11, wherein the attachment means comprises a permanent magnet made of a neodymium-iron-boron material which is situated within the housing of the position measurement probe.

13. Device as claimed in claim 9, wherein the position measurement probe contains at least one optical gyro.

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wherein the position measurement probe is adapted to gather measurement data from position measurements in at least three measurement positions around said lengthwise axis such that the measurement positions differ by an angle of rotation of the body around the lengthwise axis.

wherein the position measurement probe is adapted to gather measurement data from position measurements in at least three measurement positions around the lengthwise axis such that the measurement positions differ by an angle of rotation of the body around the lengthwise axis.

wherein the position measurement probe is adapted to gather measurement data from position measurements gathered in at least three measurement positions around said lengthwise axis such that the measurement positions differ by an angle of rotation of the body around the lengthwise axis.